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**TECHLAW INC.**

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RZ2.R05020.01.ID.178

January 22, 1998

Mr. Brian Freeman  
U.S. Environmental Protection Agency  
Region 5, DRE-9J  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Reference: EPA Contract No. 68-W4-0006; Work Assignment No. R05020; Daelyte Service Company/Astro Maintenance; Detroit, Michigan; EPA ID No. MID006537336; Site Inspection Trip Report; Task 06 Deliverable

Dear Mr. Freeman:

Please find enclosed TechLaw's Site Inspection Trip Report for the Site Inspection (SI) conducted at the Daelyte Service Company/Astro Maintenance (Daelyte) facility in Detroit, Michigan. This site inspection was conducted on December 19, 1997, to assist U.S. Environmental Protection Agency (U.S. EPA) Region 5 in determining whether hazardous wastes are currently stored at the site, in violation of RCRA regulatory requirements and whether hazardous wastes have impacted environmental media at the site. No sampling was conducted during this site inspection. An electronic version of this deliverable is included on the attached diskette in WordPerfect version 6.1 for Windows format for your convenience.

The SI Team was able to inspect the majority of the Daelyte site. One portion of the warehouse could not be inspected directly due to unsafe structural conditions caused by a collapsed roof. However, from a distance, that portion of the warehouse did not appear to have been used for container storage.

During the investigation, four Areas of Concern (AOCs) were identified at the Daelyte facility. These are referred to as AOCs A, B, C, and D in this report. AOC A consisted of two underground storage tanks (USTs) located adjacent to the Daelyte parking lot; AOC B consisted of a UST under the floor of the Daelyte warehouse; AOC C is the entire warehouse area of the Daelyte facility; and AOC D is a portion of the Daelyte warehouse which contained several containers of acids. AOC C was estimated to contain approximately 1,000




Mr. Brian Freeman  
January 22, 1998  
Page 2

1-gallon cans of paint, approximately 200 five-gallon containers of paint and industrial cleaning supplies, and approximately 30 larger containers, up to and including 55-gallon drums. For the following reasons no samples were collected during the site inspection: the majority of the containers at the site were labeled and in fair to good condition; the property owner was familiar with the materials stored at the site such that she was able to identify all material stored in containers that were not clearly labeled; and materials from the site were reported by the owner to be used occasionally. No waste solvents or solvent/paint mixtures were observed during the site inspection and the property owner stated that she was not aware of any such materials stored at the site.

The attached report, field logs and photographic logs detail the materials and the conditions encountered at the Daelyte facility. Supplemental photographs, most of which are redundant with those in the enclosed photographic log, are attached to this report for your information.

Please feel free to contact me at 312/345-8963 or Mr. Todd Quillen, the TechLaw Technical Lead, at 312/345-8915, if you have any questions.

Sincerely,

For   
Patricia Brown-Derocher  
Regional Manager

Enclosure

cc: F. Norling, EPA Region 5 (w/out attachment)  
D. Sharrow, EPA Region 5  
S. Murawski, EPA Region 5  
D. Garber, EPA Region 5  
M. Herring, EPA Region 5  
Y. Remes, EPA Region 5  
L. Sass, EPA Region 5  
P.C. Lall, EPA Region 5  
T. Quillen  
Chicago Central Files

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**TECHLAW INC.**

**DAELYTE SERVICE COMPANY/ASTRO MAINTENANCE  
EPA ID No. MID006537336**

**SITE INSPECTION TRIP REPORT**

**TASK 06 DELIVERABLE**

**Submitted to:**

**Mr. Brian Freeman  
U.S. Environmental Protection Agency  
Region 5, DRE-9J  
77 West Jackson Boulevard  
Chicago, Illinois 60604**

**Submitted By:**

**TechLaw, Inc.  
10 South Wacker Drive, Suite 2100  
Chicago, Illinois 60606**

<b>EPA Work Assignment No.</b>	<b>R05020</b>
<b>Contract Number</b>	<b>68-W4-0006</b>
<b>Contractor WAM</b>	<b>Patricia Brown-Derocher</b>
<b>Contractor WAM Telephone No.</b>	<b>312/345-8963</b>
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<b>EPA WAM Telephone No.</b>	<b>312/353-2720</b>

**January 22, 1997**

**DAELYTE SERVICE COMPANY/ASTRO MAINTENANCE  
EPA ID No. MID006537336**

**SITE INSPECTION TRIP REPORT**

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## **I. EXECUTIVE SUMMARY**

A Site Inspection (SI) was conducted at the Daelyte Service Company/Astro Maintenance (Daelyte) facility in Detroit, Michigan (EPA ID No. MID006537336) on Friday December 19, 1997. The purpose of the SI was to assist the U.S. Environmental Protection Agency (U.S. EPA) in determining whether hazardous wastes are currently stored at the Daelyte facility, in violation of RCRA regulatory requirements and whether hazardous wastes have impacted environmental media at the site.

The SI Team consisted of representatives from U.S. EPA, Region 5, TechLaw, Inc., Metcalf & Eddy (M&E), and Ecology & Environment (E&E). The following personnel were present during the SI:

Ms. Rosemary Matteson - Daelyte  
Ms. Diane Sharrow - U.S. EPA, Region 5  
Mr. Todd Quillen - TechLaw, Inc.  
Mr. Dave Lewis - M&E  
Mr. Herb Hickman - M&E  
Mr. Dave Rittmeyer - M&E  
Mr. Jeff Wilson - M&E  
Mr. Ron March - M&E  
Mr. Tim Dewitte - M&E  
Ms. Cheryl Elliott - E&E  
Mr. Michael Diekhaus - E&E

In addition to the SI activities, the SI Team was prepared to collect solid and liquid waste samples, depending on the SI findings. During the SI, samples for laboratory analysis were not collected for the following reasons: the majority of the containers at the site were labeled and in fair to good condition; the property owner<sup>1</sup>, Ms. Rosemary Matteson, was familiar with the materials stored at the site and was able to identify all material stored in containers that were not clearly labeled; and materials from the site were reported by the property owner to be used occasionally. No waste solvents or solvent/paint mixtures were observed during the SI by the SI Team and the property owner stated that she was not aware of any such materials stored at the site. A Site Health and Safety Officer and a Building Construction Safety Officer were present during the inspection to account for any unknown safety concerns and to assess the structural integrity of the buildings at the facility. A site location map

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<sup>1</sup> The ownership of the Daelyte property is unclear. Ms. Rosemary Matteson claims that she is the property owner, yet a March 22, 1994, Title Search (conducted by PRC Environmental Management, Inc., for U.S. EPA, Region 5) on the Daelyte property indicated that Mr. Horace C. Boutell is the current owner of, approximately, the southern half of the property.

(Figure 1), a facility plan (Figure 2), and a map showing the Areas Of Concern (AOCs) identified during the SI (Figure 3) are presented in this report. Photographs taken during the SI are documented in Appendix A and the SI Field Notebooks are included in Appendix B.

During the SI, it appeared that no operations-related activities had occurred at the Daelyte facility for a considerable time. Perhaps the only recent activities that had taken place involved sweeping the floor and organizing some of the containers in the building. The owner was present during the SI and confirmed that Daelyte had not been in business for several years due to personal illness and competition from other companies. The SI Team investigated the warehouse building (Figure 2) for the storage of potentially hazardous materials and/or waste. The warehouse consists of two joined structures, referred to in this report as the original warehouse and the east addition. A portion of the west end of the original warehouse was not entered due to unsafe structural conditions caused by a partially collapsed roof. Although the SI Team did not enter the collapsed roof area, the area was visible and appeared similar to other parts of the warehouse in terms of use.

A total of four AOCs were identified during the SI. These are described in more detail in Section VI of this report and are summarized below. AOC A (Two Exterior USTs) consisted of two inactive underground storage tank (UST) systems which are still present in the northeast corner of the parking area. According to the dispenser island pumps present, one of the USTs contained gasoline and the other contained paint thinner. During the SI the fill pipe for the UST adjacent to the "GASOLINE" dispenser island was opened and a rod was placed into the tank to gauge the product level in the tank. The UST was found to have approximately 1-foot of product remaining in the tank. The product had an odor consistent with gasoline. The SI Team was unable to open the fill pipe for the "THINNER" UST because the fill pipe riser casing had been filled with sand. The capacities of the USTs in AOC A are unknown.

AOC B (Interior UST) consisted of a UST which was located beneath the floor of the east addition. The owner of the facility stated that she was unaware of the presence of this UST. Access to this UST is through a manhole in the concrete floor of the east addition. The fill pipe lid was removed and the tank was found to contain 8 inches of product. The product had an odor consistent with fuel oil. It is likely that the contents of this UST were used to heat the warehouse. The capacity of this UST is unknown.

AOC C (Paints and Cleaning Chemicals) consisted of stored paints, varnish, stains, floor waxes, and cleaning supplies (including small containers of solvents and thinners) in various areas of the warehouse building. Since these materials are stored throughout the entire facility, AOC C encompasses the entire warehouse structure. These items are stored in approximately 1,000 1-gallon and smaller containers, 200 five-gallon containers, and 30 containers of greater capacity including 55-gallon drums. Over 95 percent of the containers contained paint, varnish or stain. Approximately 15 of the 1-gallon paint containers were open or had leaked, which was evident from the dried paint on the shelves and floor beneath

the containers. Upon inspection, the paint in the open and/or leaking containers had dried to a solid.

AOC D (Acid Storage Area) consisted of a corroded 35-gallon (estimated volume) container, as well as several other smaller containers that were labeled as brick cleaner, metal cleaners or etchants. AOC D was located in a northern portion of the original warehouse. The smaller containers had legible labels that identified the contents as predominantly acid based metal cleaners. The metal portion at the bottom of the 35-gallon container was heavily corroded and the contents of the drum were contained only by the intact plastic liner. The contents of the 35-gallon container was field tested and found to have a pH of less than 1. A label on the container stated that the contents were: Abbott AC-89, Acid Detergent Brick Cleaner. The containers in AOC D are located approximately 20 feet from a catch basin inside of the original warehouse.

Overall, the vast majority of the paint, varnish, stain, floor waxes, and various cleaner containers appear to be in good condition. It is unknown if these products are in a useable state. It was reported by the site owner that an associate of hers recently removed several gallons of paint from the warehouse and reportedly used the paint to paint an unknown object. This suggests that the paint stored in the warehouse may be a useable product.

## **II. SITE DESCRIPTION**

Daelyte is located on two adjoining properties at 1356 and 1360 Mt. Elliott Road, in an industrial/residential area of Detroit, Michigan. The property at 1356 Mt. Elliott Road is the original Daelyte property and the property at 1360 Mt. Elliott Road is the former Astro Maintenance property. The Daelyte site is bordered by an abandoned industrial building to the south, Mt. Elliott Cemetery to the west, an empty lot to the north and residences to the east. An alley runs in a north-south direction on the east side of the Daelyte property. The facility consists of two wood frame houses, a common parking area, and a warehouse. A chain link fence encloses the facility on the north and west sides of the property. A padlocked gate on the west side allows access to the parking area and the rest of the facility. The northern house had two dogs in the yard and appeared to be occupied. Upon inquiry, Ms. Rosemary Matteson indicated that she lived in the northernmost house, at 1360 Mt. Elliot Road. The southern, two story house had a brick front and appeared to be once used as an office for the facility. The paved parking area contained several old cars, an old van, and two old pickup trucks. Two UST systems are located at the northeast corner of the parking area.

The warehouse is on the east side of the property and is actually two structures which share a common wall (see Figures 2 and 3). The original warehouse is approximately 50 ft. x 80 ft. in area and is constructed with block bearing walls with a bowstring roof truss system. The roof on the original warehouse has partially collapsed and the original warehouse was

determined to be structurally unsafe by the SI Team's Building Construction Safety Officer. In addition to the partially collapsed roof, the west wall was beginning to show signs of buckling. A large overhead bridge crane is located in the original warehouse. The east wall of the original warehouse is shared with the east addition.

The east addition of the warehouse is approximately 33 ft. x 154 ft. and is constructed of block bearing walls and a gable roof. The east addition was in better structural condition than the original warehouse. At the north end of the east addition is a 33 ft. x 40 ft. storage room with a overhead bridge crane. Access to the storage room is through a door in the original warehouse. A large overhead truck door is located at the southern end of the east addition on the west side. Two large walk-in closets are present at the southern end of the warehouse along the east wall. There is a platform with stairs that is built above the walk-in closets. In the center of the east addition is a UST which appears to have been used for storage of fuel oil. Access to the UST is through a manhole in the concrete floor. The floor in the east addition is at two elevations. The southern portion where the overhead truck door is located, is about 3.5 ft. lower than the rest of the warehouse floor. The warehouse floors were observed to be in good condition with no obvious cracks.

A majority of the warehouse appeared to be used for storage of paints and other paint-related materials. The paints are stored on shelves, on pallets on the floor and directly on the bare concrete floor. A large amount of scaffolding and several ladders were leaning against the east and north walls of the east addition. The storage room at the north end of the east addition contained miscellaneous cleaning equipment (i.e. floor scrubbers, vacuums, buckets, mops, etc.). The portion of the warehouse with the collapsed roof contained broken storage lockers, several gasoline-powered lawn mowers, and a few containers and drums. An old truck was parked inside the east addition at the southern end, and appeared to have sandblasting equipment mounted in the back.

Two large floor drains and a trench drain are located in the warehouse. One floor drain is in the east side of the original warehouse, the other was located under the truck in the east addition. A trench drain spans the width of the overhead door entrance of the east addition. The SI Team was not able to determine if the drains are connected to the storm or sanitary sewer system.

### **III. SITE HISTORY**

The Daelyte property consists of several lots that have been combined over the years. The combined lots form a property boundary that is approximately 160 feet deep from east to west and 188 feet deep from north to south. Prior to 1947, the property was owned by various local residents.

In 1947, the Detroit Hardware Manufacturing Corporation (DHMC) began purchasing the lots that make up the Daelyte property. DHMC, which was incorporated in 1924, was in the business of manufacturing, buying and selling, at wholesale and retail, a wide variety of hardware. In 1956, DHMC amended the corporations purpose. The new purpose included the manufacturing of goods, wares, and all types of merchandise, including hardware and furniture of metal, wood, plastic and other materials. It is reported that DHMC also manufactured, preserved, processed, prepared, planted, cultivated, canned and marketed various fruits, vegetables and food products. What activities DHMC conducted at the Daelyte property is unclear, but from the warehouse structure it appears that it was probably used for the manufacturing of hardware rather than the processing of food products. DHMC changed their name in 1956 to Trans Continental Industries (TCI). The property was purchased by Daelyte in 1958.

Daelyte was incorporated in 1924 in the State of Michigan. Daelyte stated in their Article of Incorporation that they would perform the business of washing and cleaning windows and other portions of industrial, office and residential buildings, together with the general business of painting and decorating. At some undetermined time, Daelyte discontinued the painting business, and continued with building maintenance and cleaning services for commercial and industrial facilities, which included painting refurbished facilities. As described earlier in this report, the owner stated that the business had not been active for several years. The materials remaining in the warehouse appeared to be from the former painting and cleaning activities of Daelyte.

#### **IV. REGULATORY HISTORY**

The Michigan Department Of Natural Resources (MDNR) conducted a RCRA Compliance Inspection at Daelyte on January 11, and 15, 1985. The inspectors reported several violations of RCRA requirements including the observation that waste solvent mixed with paint was being stored in unlabeled containers and was being stored for more than 90 days. Several of the containers were reported to be stored open. There were no open containers of solvent and/or solvent/paint mixture observed during the December 1997, SI:

Subsequent to the MDNR inspection, there were several administrative attempts to try to get Daelyte to comply with the various regulatory violations identified during the January 1985, compliance inspection. These administrative attempts included issuance of an Administrative Order, Default Order, Final Order, Civil Action, Default Judgement, a property lien, and dissolution of the corporation.

On April 20, 1995, MDNR conducted an inspection of Daelyte at the request of the U.S. EPA to determine whether the facility was in compliance and whether prior violations had been addressed. MDNR staff members found containers of cleaning chemicals, some of which were rusting and unlabeled. There were reportedly over 500 1-gallon containers of paint on

shelves and scattered around the warehouse. The collapsed roof was noted during the inspection. Miscellaneous junk, including car parts, trailers, wood and boxes was being stored at the facility. The MDNR inspection report mentioned the presence of UST's which the owner said were empty. As a result of the MDNR inspection, a Letter of Warning was sent to the owner of Daelyte stating that the facility was found to be in violation of MDNR UST regulations and Subtitle C of RCRA. The Letter Of Warning listed the following requirements that were not being met.

- Any USTs that are not in use or abandoned must be registered with the state and should be removed from the ground.
- The facility must be cleaned and the warehouse stopped being used as a disposal site for solid waste.
- Daelyte must remove the precipitation accumulated inside the building in a timely manner or repair the roof to avoid such problems.
- Daelyte must determine the content of the unlabeled containers.

The Michigan/Wisconsin Section of the U.S. EPA Enforcement and Compliance Assurance Branch (ECAB) attempted to conduct an inspection on June 12, 1996, however, the inspection team was unsuccessful in gaining access to the site. From outside of the fence line, the ECAB inspection team noted the presence of several older cars in the fenced parking area, the two wood frame houses, and the warehouse. The ECAB inspection team was advised by the U.S. EPA Office of Regional Counsel to refer the facility to the U.S. EPA Superfund Division for a possible removal action.

## **V. WAREHOUSE STRUCTURAL STABILITY**

This section summarizes observations made by the Building Construction Safety Officer who was present during the SI. The section explains the safety concerns relating to the structural integrity of the warehouse at the Daelyte facility.

The building consists of an original structure about 50 feet by 80 feet and a later addition of about 33 feet by 155 feet to the east (see Figure 2). The original structure consists of a block bearing wall with a timber roof supported by timber bowstring trusses spanning the 80 foot section. The roof is partially collapsed and the building is in a dangerous condition. The 80 foot-long west wall is very unstable and leaning outward. This wall still supports heavy timber rafters. Disturbances, heavy snow, or wind loads may lead to further collapse. The first bowstring truss to the east of the west wall is completely collapsed with the ends still resting upon the north and south walls and portions of the truss are either in contact with the floor or partially supported by the steel bridge crane framing found in the center of the

building. Rafters are still bearing on part of the truss, but could easily slip off, leading to further collapse. The portion of the roof which remains appears to be stable but this is deceiving, since the lateral support provided by the roofing system is compromised. Rafters are no longer adequately supported by the bowstring truss and are in danger of slipping off the truss. The truss itself is almost certainly rotating about its longitudinal axis. Again, disturbances, heavy snow, or wind loads may lead to further collapse. The north and south walls appear to be stable at this time, but could easily be tipped over if the remaining portions of the roof collapse further.

The east addition to the building also consists of block bearing walls, but steel joists are used to support the roof. The roof does not appear to leak and the building is in generally good condition. The area of concern in the east addition to the building is the common wall between the original building and the addition. There is a strong likelihood that this wall would collapse if the remaining portion of roof on the original building were to collapse. It is not clear how this would affect the building addition.

No work should be conducted within or around the original 50 foot by 80 foot part of the warehouse building because of the danger of further collapse, especially since any disturbance to the remainder of the structure can bring about a sudden collapse of the entire remaining structure. Prior to conducting any remedial work, damaged parts of the roof must be removed or stabilized. Walls must also be braced. In lieu of this, the original building could be razed in its entirety.

## **VI. AREAS OF CONCERN**

This section presents descriptions of the Areas Of Concern (AOCs) identified during the SI at the Daelyte facility. The locations of the AOCs are identified in Figure 3. Photograph numbers correspond to those presented in the Photograph Log in Appendix A.

### **AOC A - Two Exterior USTs**

Photograph Nos.: 1-3 and 1-4

The two USTs in this area are located outside the warehouse in the northeast corner of the parking area. The USTs will be referred to as the West UST and the East UST. Adjacent to and above each UST is a service station-type pump for removing product from the tanks. There are two small diameter pipes attached to the side of the warehouse in the area of the USTs that are likely vents. A label on the West UST pump reads "GASOLINE". This UST was probably used at one time for fueling Daelyte's vehicles. The label on the East UST reads "THINNER". The East UST was probably used for storing paint thinner when Daelyte was more actively involved with painting activities.

During the SI the protective covers for the fill pipes were removed to check for remaining product in either UST. Upon removal of the fill pipe protective cover for the East UST it was discovered that the fill pipe protective cover casing had been filled with sand. As a result, the SI Team was unable to determine if product was present in this UST. The fill pipe for the West UST was still accessible. It was opened and a rod was lowered into the UST where it was determined that the bottom was approximately 8 feet below grade. Approximately 1-foot of product was found to be remaining in the bottom of the UST. The odor on the rod was similar to that of gasoline. The capacity of the USTs in AOC A is unknown.

#### AOC B - Interior UST

Photograph No.: 1-13

The UST in this area is located in approximately the center of the raised floor of the east addition of the warehouse. The UST is accessible through a manhole in the concrete floor. Visible in the manhole is a tank flange with an attached blind flange and a capped stand pipe. A fuel oil pump was located in the southwest corner of the east addition. Piping on the discharge side of the pump can be traced to the vicinity of the UST in AOC B. It is assumed that, at one time, this UST was used for storage of fuel oil or heating oil for the warehouse heating system.

A member of the SI Team was lowered into the manhole utilizing confined space entry procedures to check if the UST was empty. The cap on the standpipe was removed and a rod lowered into the tank. The bottom of the tank is approximately 10 feet below the finished floor found under the manhole. Approximately 8 inches of product with the odor of fuel oil was found remaining in the bottom of the tank. The capacity of this UST is unknown.

#### AOC C - Paints And Cleaning Chemicals

Photograph Nos.: 1-5 through 1-19

This AOC consists of the paints, varnishes, stains, floor waxes, and cleaning supplies stored throughout the warehouse. During the SI, a count was taken of the number and types of containers stored throughout the warehouse. In general, most of the containers were located in the east addition along the east wall and staged on the elevated floor. The majority of the containers were 1-gallon, and smaller, containers of paint and cleaning products. Shelving along the east wall held approximately 800 containers, the two walk-in closets along the east wall in the east addition held approximately 100 containers, and approximately 100 other 1-gallon containers were observed scattered throughout the warehouse. In addition to the 1-gallon, and smaller, containers, there were approximately 200 five-gallon containers, and approximately 30 other large containers including fifty-five gallon drums. All of the accessible five-gallon containers appeared to contain paint.



Some 55-gallon drums were labelled as dewaxer, scrubber floor finish, and floor wax. One of the 55-gallon drums contained what appeared to be fuel oil. During the SI, no open drums of spent solvent were observed, as was described following MDNR's November 11, and 15, 1985, site inspection. Seven, 1-gallon containers of phosphoric acid were found on shelves in the northernmost storage-room in the northeast portion of the east addition of the warehouse. Approximately 15 fluorescent light ballasts, labeled and boxed, were found on shelves in the adjacent storage room. Approximately 40 fluorescent light bulbs were also observed in the storage room in the northeast portion of the east addition.

Based on visual inspection, most of the containers in AOC C were in fair to good condition, had labels and were properly sealed. A small percentage of the 1-gallon paint containers (approximately 15) had no lids or had leaked. The paint in these open containers had dried to a solid. A pool of liquid that appeared to be floor wax or finisher had leaked onto the floor in the area of the walk-in closets. The owner was able to identify most of the unlabeled containers, which were cleaning chemicals.

#### AOC D - Acid Storage Area

Photograph No.: 1-17

An approximately 35-gallon corroded drum was observed in the northern portion of the original warehouse. There were numerous smaller containers in the vicinity of this drum that were labelled as acid based metal cleaners or etchants. The drum was labeled as: Abbott AC-89, Acid Detergent Brick Cleaner. Among other information on the label of the drum was a phone number to call for information on AC-89 (313/399-4000).

AOC D was not under the collapsed roof area of the original warehouse and was accessible to the SI Team. A field sample was collected from the drum by the SI Team and field tested with a pH strip. The strip showed the pH of the liquid in the container to be less than one. The drum was a plastic-lined metal container. The metal at the base of the container was severely corroded so that it no longer provided any structural support to the container. The plastic liner in the drum was still intact and the drum was mostly full. The containers in AOC D are located approximately 20 feet from a catch basin inside of the warehouse structure. A release from these containers could potentially enter the catch basin and enter either the storm or sanitary sewer.

## **VII. SUMMARY**

The SI Team estimates that over 1,200 containers ranging from quart-size to 55-gallon drum are stored at the site. Almost all of these containers were labeled and in fair to good condition. The facility representative was able to identify the contents of all unlabeled containers. No waste solvent or waste paint/solvent mixture, materials that had been reported

at the site during previous site inspections, was found during the site inspection. A portion of the roof in the original warehouse at the Daelyte site was collapsed. Future U.S. EPA activity at the site should be limited in the original warehouse due to the unsafe structural conditions.

**FIGURE 1**  
**SITE LOCATION MAP**

FILE NO.

J. \156020-1

DATE

APPROVED BY

DATE

1/6/98

CHECKED BY

T. DEWITTE

DATE

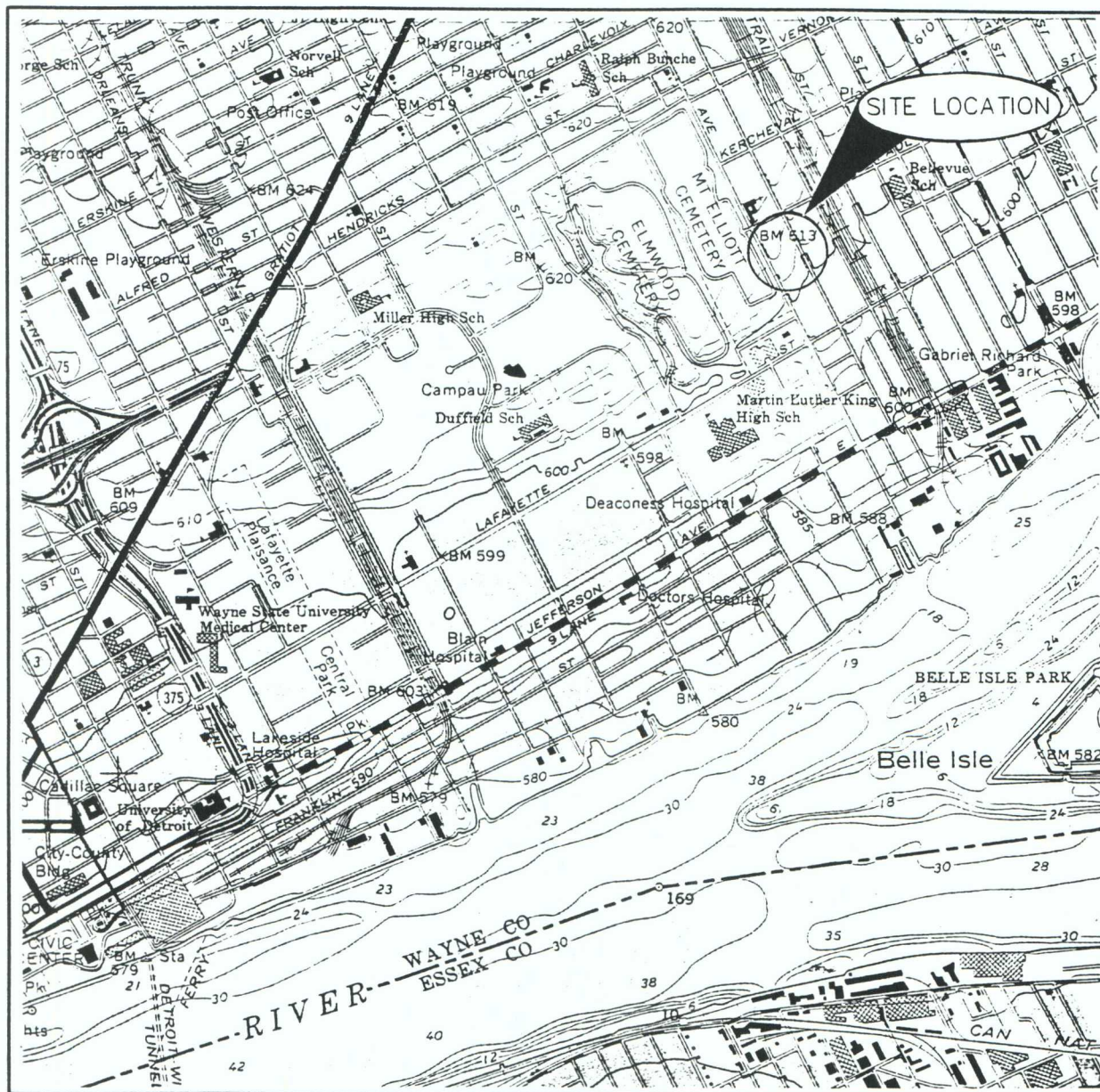
1/6/98

DRAWN BY

G. SATTAR



DETROIT



DETROIT QUADRANGLE  
MICHIGAN - ONTARIO  
7.5 MINUTE SERIES (TOPO)  
SCALE : 1: 24000



METCALF &amp; EDDY

DAELYTE SERVICE, INC.  
DETROIT, MICHIGAN

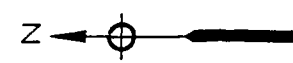
SITE LOCATION MAP

FIGURE

1

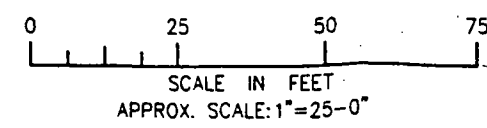
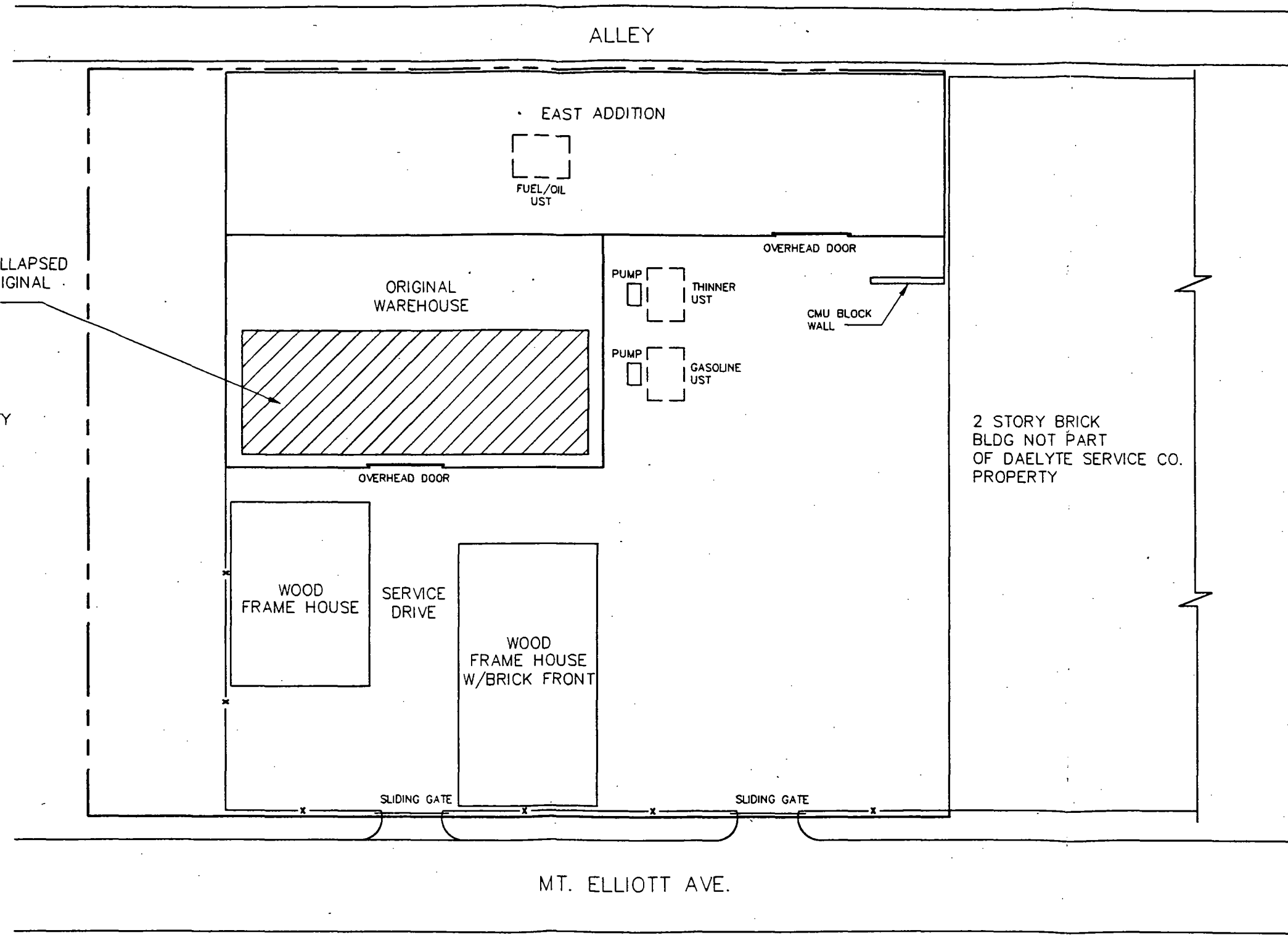
**FIGURE 2**  
**FACILITY PLAN**

FILE NO. J\156020-2  
DATE  
APPROVED BY  
DATE 1/6/98  
CHECKED BY T. DEWITTE  
DATE 1/6/98  
DRAWN BY G. SATTAR

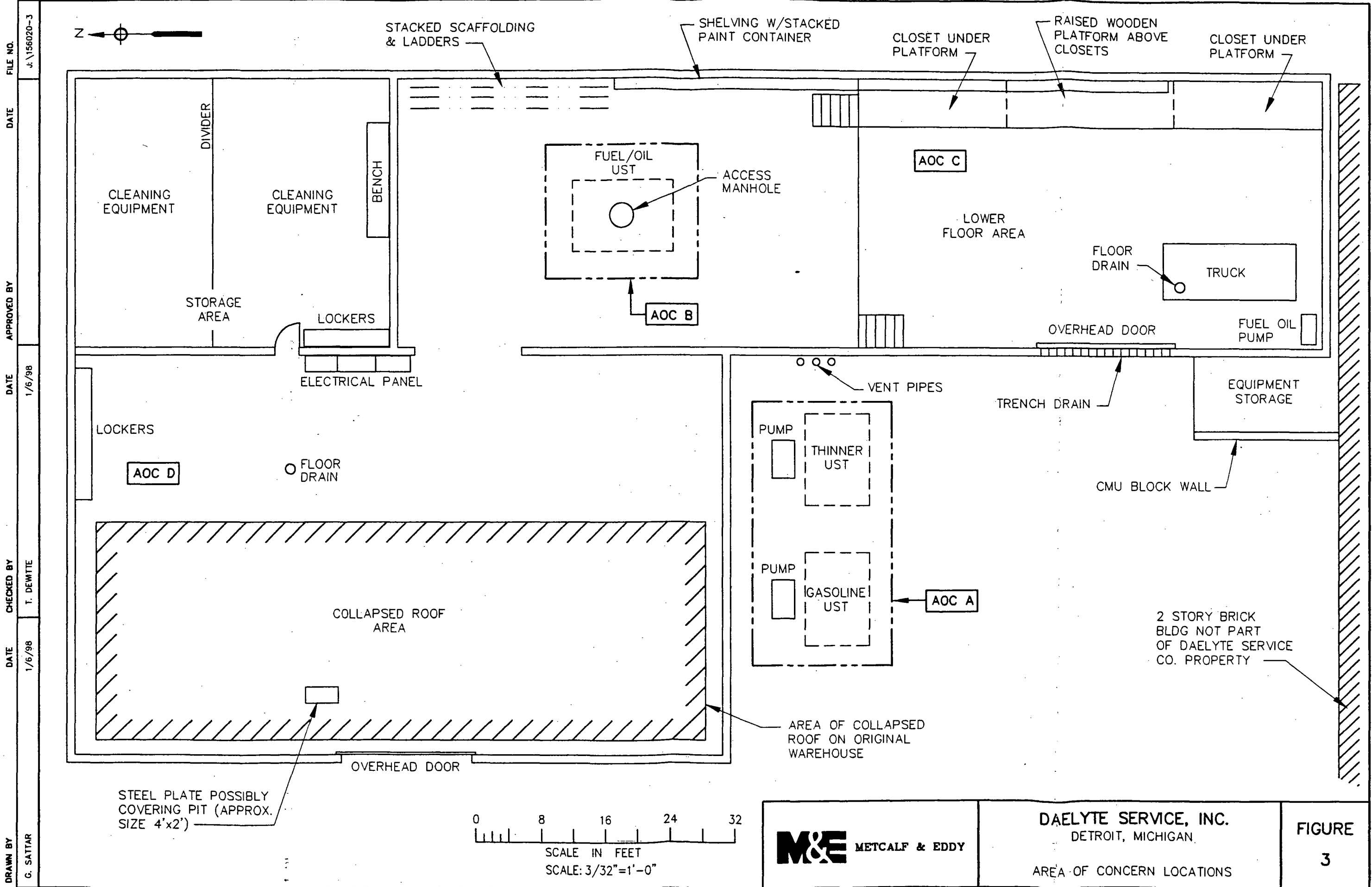


AREA OF COLLAPSED  
ROOF ON ORIGINAL  
WAREHOUSE

EMPTY  
LOT



**FIGURE 3**  
**AREA OF CONCERN LOCATIONS**



DAELYTE SERVICE, INC.  
DETROIT, MICHIGAN

AREA OF CONCERN LOCATIONS

FIGURE  
3



**APPENDIX A**  
**PHOTOGRAPHIC LOG**



Photo No.: 1-1  
Date: 12/19/97

Time: 1115  
Direction: E

Description: Daelyte facility parking area viewed from across Mt. Elliott Road.



Photo No.: 1-2  
Date: 12/19/97

Time: 1115  
Direction: E

Description: The office and attached two-story wood framed house in the center of the photograph and the northern house, to the left of the photograph, are viewed from across Mt Elliott Road.

NON-STEVE J. LOWERY  
C-TIME 12/30/18





Photo No.: 1-3  
Date: 12/19/97

Time: 1235  
Direction: N

Description: Gasoline dispenser pump located at AOC A. Top portion of UST vent-pipe may be seen at the roof-line between the two windows at the right of the photograph.



Photo No.: 1-4  
Date: 12/19/97

Time: 1145  
Direction: N

Description: "Thinner" dispenser pump located in AOC A. Rusted, UST fill-port cover may be seen in the concrete pad to the left of the pump and the suspected vent-pipe for the UST may be seen to the right of the pump.



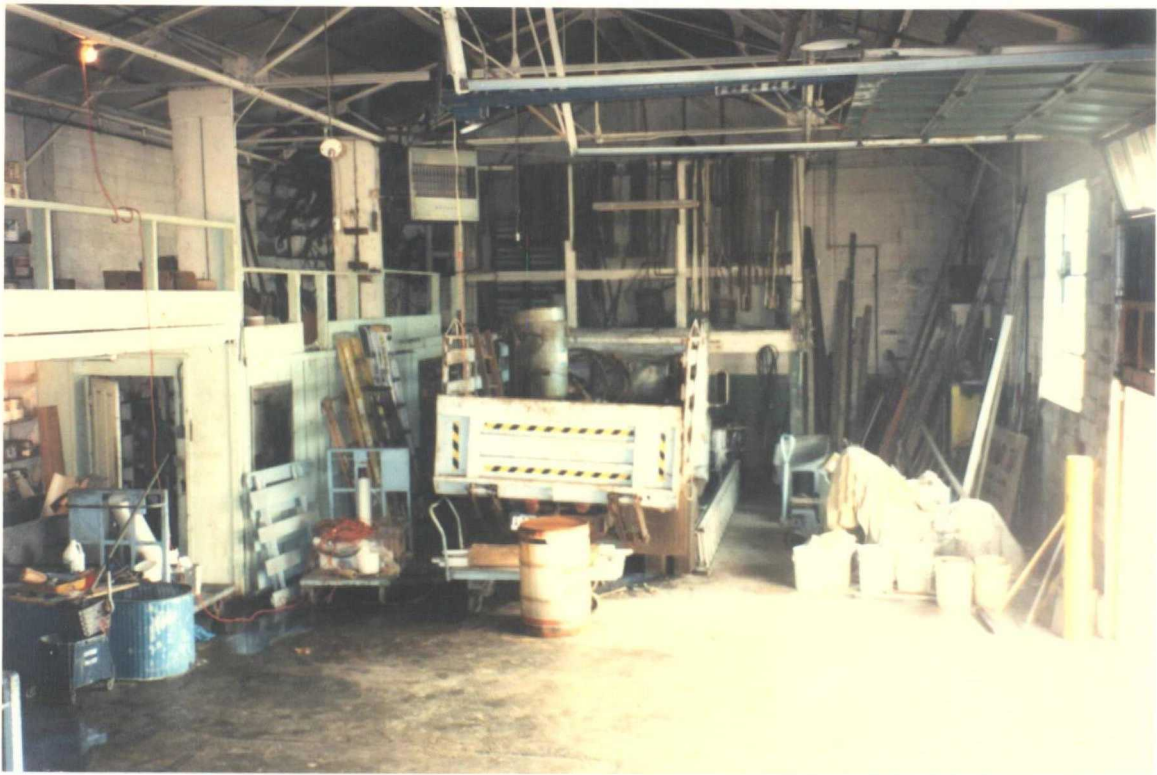


Photo No.: 1-5

Date: 12/19/97

Time: 1240

Direction: S

Description: Southern portion of the east addition of the Daelyte warehouse. The garage door used for entry into the warehouse is the source of light at the far right edge of the photograph.



Photo No.: 1-6  
Date: 12/19/97

Time: 1241  
Direction: SE

Description: Southern walk-in closet in south portion of east addition.





Photo No.: 1-7

Date: 12/19/97

Time: 1241

Direction: NE

Description: Northern walk-in closet at south end of east addition may be seen on the left side of the photograph. Container storage may be seen on the shelves.





Photo No.: 1-8  
Date: 12/19/97

Time: 1246  
Direction: SE

Description: Storage area above walk-in closets in southern end of east addition.



Photo No.: 1-9  
Date: 12/19/97

Time: 1246  
Direction: SE

Description: East-central portion of east addition showing storage of numerous 1-gallon paint cans. The area shown in Photograph 1-8 may be seen in the upper right portion of this photograph.





Photo No.: 1-10  
Date: 12/19/97

Time: 1247  
Direction: NE

Description: East-central portion of the east addition facing northeast. This is the primary storage area for the five-gallon containers at the facility.

A-10

MOI 01/01/98 10:00 AM  
C-TIME 100018



Photo No.: 1-11  
Date: 12/19/97

Time: 1247  
Direction: NE

Description: East-central portion of the east addition facing northeast. This photograph shows the storage area above and behind that area shown in Photograph 1-10.





Photo No.: 1-12  
Date: 12/19/97

Time: 1248  
Direction: SE

Description: East-central portion of east addition facing southeast.

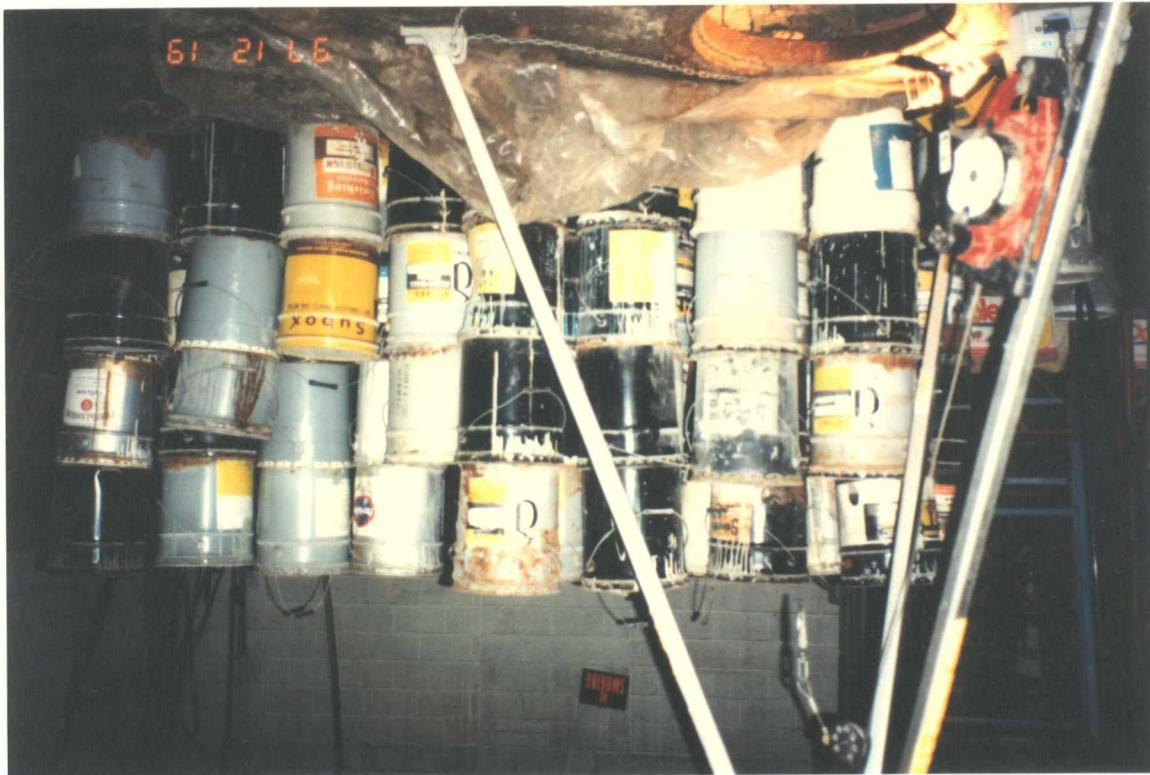


Photo No.: 1-13

Date: 12/19/97

Time: 1249

Direction: N

Description: North portion of the east addition showing five-gallon paint cans. The manhole which provides access to AOC B may be seen at the base of the photograph. The tripod set-up over the manhole was used during the site inspection to access the probable fuel oil UST fill pipe.



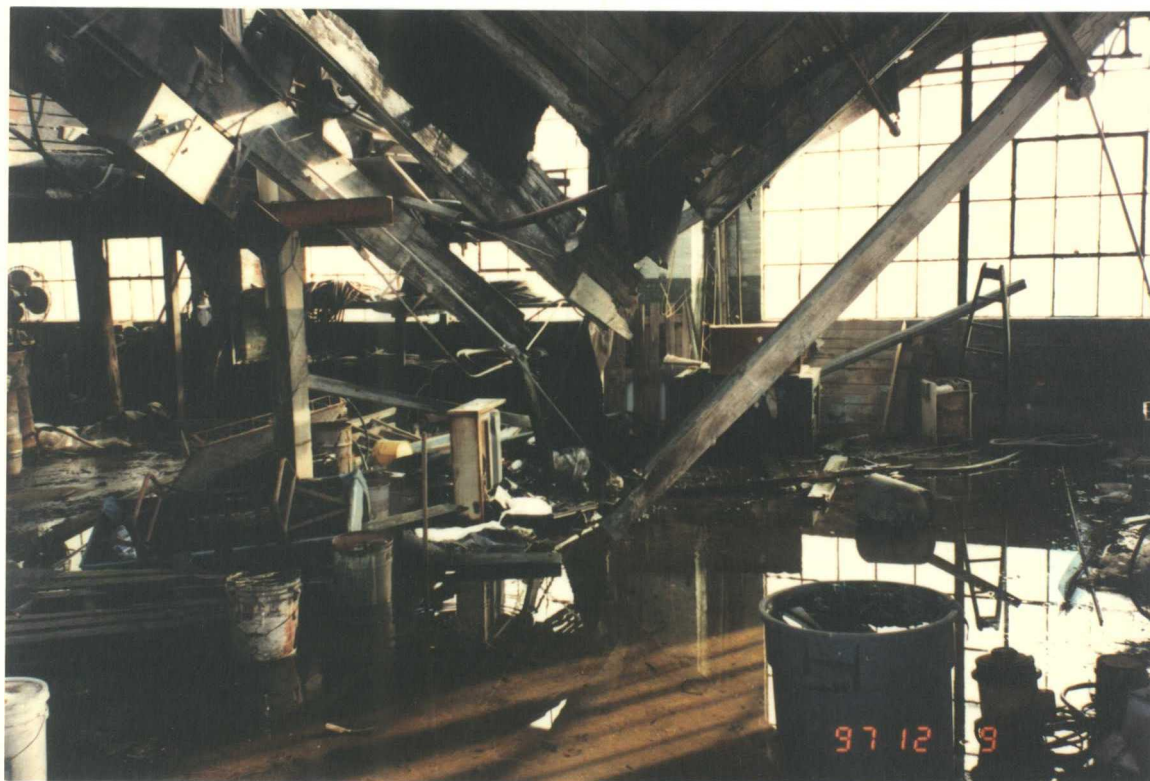


Photo No.: 1-14  
Date: 12/19/97

Time: 1249  
Direction: SSE

Description: Collapsed roof in southern portion of original warehouse. Water may be seen accumulated on the floor. A suspected floor drain (inoperative) was believed to be observed at the base of the broom handle seen sticking out of the ground in the left-central portion of the photograph.



Photo No.: 1-15  
Date: 12/19/97

Time: 1249  
Direction: SW

Description: Collapsed roof on the original warehouse viewed to the southwest.





Photo No.: 1-16  
Date: 12/19/97

Time: 1252  
Direction: N

Description: Metal cover over suspected access trench under western portion of original warehouse. Area was not investigated further because of unsafe structural conditions. A small puddle of oil may be seen on the ground to the right of the photograph. The source is likely one of the drums adjacent to the puddle.



Photo No.: 1-17  
Date: 12/19/97

Time: 1255  
Direction: NW

Description: View facing northwest of the drums in AOC D. The corroded drum on the left, approximately 35-gallons, was pH tested and found to contain a pH of less than 1.





Photo No.: 1-18  
Date: 12/19/97

Time: 1315  
Direction: NW

Description: Storage racks and bridge crane in original warehouse.



Photo No.: 1-19  
Date: 12/19/97

Time: 1316  
Direction: SE

Description: Storage room in the northeast portion of the east addition. Some fluorescent light bulb ballasts were found, in labeled boxes, on shelves in this room.

**APPENDIX B**  
**FIELD LOGBOOKS**

12-19-97

Clear & 60°S of

Dialyte Service - Project Site  
On Site @ 11:00am

Herb Hickman - N/E

Jeff Wilson - N/E

Todd Quillen - Techlan

Dave Rittmeyer - N/E

RON March - N/E

Tim DeWitte - N/E

Liane Sharon - EPA

Mike Dieckhaus - ecology & environment

Cheryl Elliott - E/E

11:15 Rittmeyer, Hickman, Sharon,  
Lewis enter structure for  
inspection.

Picture #1 - N/A

11:15 #2 look ENE @ Site.

11:17 #3 look E @ Site

11:20 #4 look NE @ damaged roof

11:45 #5 NE corner of Bldg  
looking at

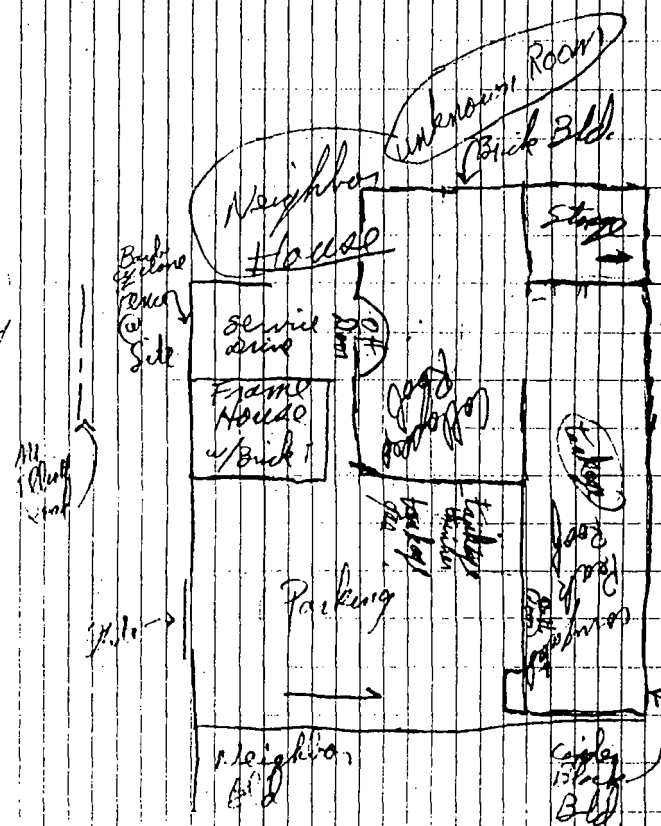
11:50 #6 Same as #5 looking at

R.A. March 12-19-97



Project Site

12/19/97



R.A. March 12-19-97

PA. Ward 12-19-77



Trayle 12-19-97

12:45 Picture #14 look NW at closed  
room north of picture #13

Paint can count  
1 gallon @ 100' and  
2 gallons

South closet @ 100' and  
North closet @ 50' and

12:47 Picture #15  
look NE @ gasoline pump  
and thinner pump.

12:49 Picture #16 look NE @  
collapsed roof

12:53 #17 look West @  
door of block Bld.

12:57 #18 MH of Inside Truck  
look NE

R.A. March 12-19-97

Tankage - Outside

West tank - gasoline pump  
2' 8" deep  
1' of product - gasoline  
2' stick up

East tank - thinner pump  
could not access.

E & E sampled 55 gal. steel  
drum located in N. ~~large~~  
area of ~~block Bld.~~ #141.  
(possible metal chaser)

Block  
Bld. #141

1300 hrs.

Tankage - Middle of block  
Bld. inside.

D. Brown enters the access in wet  
section. Safety pump. vid H. ~~hickman~~

Stand 12' x 2'  
Depth of tank 10'

R.A. March Product 2' 8" - Tank



Projects (continued)

12-11-97 DAEHTE Site  
Mt. Elliott Sh

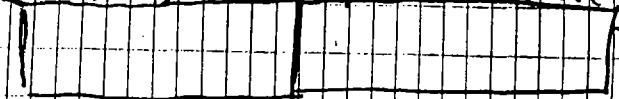
5-gallon cans: ~~240~~ <sup>350</sup> 200

1-gallon cans: ~~240~~ 950

Dura-kote Enamel Paint

Dura-kote Enamel Paint

12-15 Open and half full



Quart CANS - 20

1-gallon cans - 50

Anti Corrosive Paint

Dur

1-gallon cans - 80

(Floor Wax)

(Du Pont - Metal Conditioner)

5717-S

1-gallon - 10 plastic

30-55 gallon drums  
55-gallon drum  
9-10: ~~Scrub~~ Floor Finish  
Scrub  
1-55-gallon drum  
Fus (P. 7)

4-5: 30-gallon drums  
DEWAXit  
(Penetrator)

FORESTRY SUPPLIERS

49365

IF FOUND PLEASE RETURN TO:

NAME Todd W. Quillen

COMPANY TechLaw

STREET 10 South Wacker, Ste 2100

CITY Chicago STATE IL ZIP 60606

PHONE 312 / 345 8915



# JOB BOOK

FROM PENINSULAR PUBLISHING

PROJECT NAME Daelyte

PROJECT NUMBER R05020 0106

CREW Todd Quillen

DATE 12/18/97 BOOK # 1 OF     

WEATHER                                     

FIELD BOOK

16 PAGE

8 LEAVES

50% RAG

# CURVE FORMULAS

$$\begin{array}{l} T = R \tan \frac{1}{2} I \\ T = \frac{50 \tan \frac{1}{2} I}{\sin \frac{1}{2} D} \\ \sin \frac{1}{2} D = \frac{50}{R} \\ \sin \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T} \end{array} \quad \begin{array}{l} R = T \cot \frac{1}{2} I \\ R = \frac{50}{\sin \frac{1}{2} D} \\ E = R \text{ ex. sec } \frac{1}{2} I \\ E = T \tan \frac{1}{2} I \end{array} \quad \begin{array}{l} \text{Chord def.} = \frac{\text{chord}^2}{R} \\ \text{No. chords} = \frac{I}{D} \\ \text{Tan. def.} = \frac{1}{2} \text{ chord def.} \end{array}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by

MICHAEL L. DIECKHAUS

CHERYL L. ELLIOTT



ecology and environment, inc.

International Specialists in the Environment

12251 Universal, Taylor, MI 48180  
Tel. (313) 946-0900, Fax: (313) 946-0488

VII (11-1)

## MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

## INCHES IN DECIMALS OF A FOOT

1-16	3-32	1/8	3-16	1/4	5-16	3/8	1/2	5/8	3/4	7/8
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

ply the angle

by twice the

typ.

6.875 = Base.

ight per yard

tion, in feet  
ance in miles.  
ombined cor-

ies of various  
of these differ-  
error of the

12/19/97

1015 Met Diane Sharrow in  
Lobby of Doubletree, near  
Renaissance Center, Detroit, MI

Dave Lewis - Sample

Herb Hickman - Health & Safety

Dave Rittmeyer - Structural

Jeff Wilson - Sample

Ron March - Sample

Tim Dewitt - Sample

were here from Metcalf & Eddy

We will caravan over to M&E  
office & load equipment.

Arrived at Daelyde at 1100  
Rosemary Mattson was on site.

1105 Diane, Dave L, Dave R and  
Herb entered site w/ Rosemary

1115 I took two photos of  
front of property from across street.

1145 Entered site. Herb & Dave R  
told us hazards of site. M&E

photodocumented the site and  
looked for any drums/containers that  
were not labeled.



1-18. NW 1315

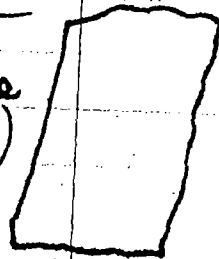
Garage

12/19/95

1-19 SE 1316

back room, some  
Fluorescent ballasts

(app 15  
actual size  
on shelf)



Outside Thinner UST  
Filled with sand  
Outside Gasoline UST 6 foot  
diameter, 1 foot product  
Inside Fuel/heating oil UST  
10 foot diameter 8" product.

12/19/95  
The only unanswered question  
is what is under the metal  
plate on the ground in the  
garage. Dave Rittmeyer said that  
area of the building was very  
unsafe. The joists had separated  
from the wall and the caved  
in roof was exerting outward  
pressure. May just be an  
access for electrical etc to  
the crane.

Left Site 1330

PPE <sup>den</sup> ne boots, hard hat, glasses, Airbrite  
gloves.

Weather cool, sunny, light wind, from  
south.